

CLAIMS

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1. A method of gene transfer including the steps of:-
 - (i) transforming a recipient plant cell or tissue by microprojectile bombardment with DNA directly isolated from a donor plant, and
 - (ii) selectively propagating a transgenic plant from the transformed recipient plant cell or tissue obtained in step (i).
 2. The method of Claim 1, wherein a selection construct is included at step (i).
 3. The method of Claim 1 wherein the DNA is genomic DNA.
 4. The method of Claim 3 wherein the DNA is a high molecular weight fraction of genomic DNA.
 5. The method of Claim 1 wherein the donor plant and the recipient plant are members of different genera.
 6. The method of Claim 1 wherein the donor plant and the recipient plant are members of different species.
 7. The method of Claim 1 wherein the donor plant and the recipient plant is a cereal.
 8. The method of Claim 7 wherein the donor plant is of the species *Zizania palustris*.
 9. The method of any preceding claim wherein the recipient plant is of the species *Oryza sativa*.

10. A recipient plant cell or tissue transformed according to step (i) of Claim 1.
11. A transgenic plant, a genome of which has at least 0.01% of a genome of a donor plant integrated therein.
- 5 12. The transgenic plant of Claim 11, wherein said genome has at least 0.1% of said donor plant genome integrated therein.
13. The transgenic plant of Claim 12, wherein said genome has at least 1.0% of said donor plant genome integrated therein.
14. The transgenic plant of Claim 13, wherein said genome has at least 10% of said donor plant genome integrated therein.
- 10 15. A transgenic cereal plant according to any one of Claims 10-14.
16. A transgenic *O. sativa* plant according to any one of Claims 10-14.
17. A transgenic plant produced according to the method of any one of Claims 1-9.
- 15 18. A transgenic plant according to any one of Claims 11-17, which transgenic plant has one or more phenotypic traits of said donor plant not normally present in said recipient plant.
19. A fruit or grain obtained from the transgenic plant of any one of Claims 11-18.
- 20 20. A seed obtained from the transgenic plant of any one of Claims 11-18.
21. A progeny plant propagated from the transgenic plant of any one of Claims 11-18.